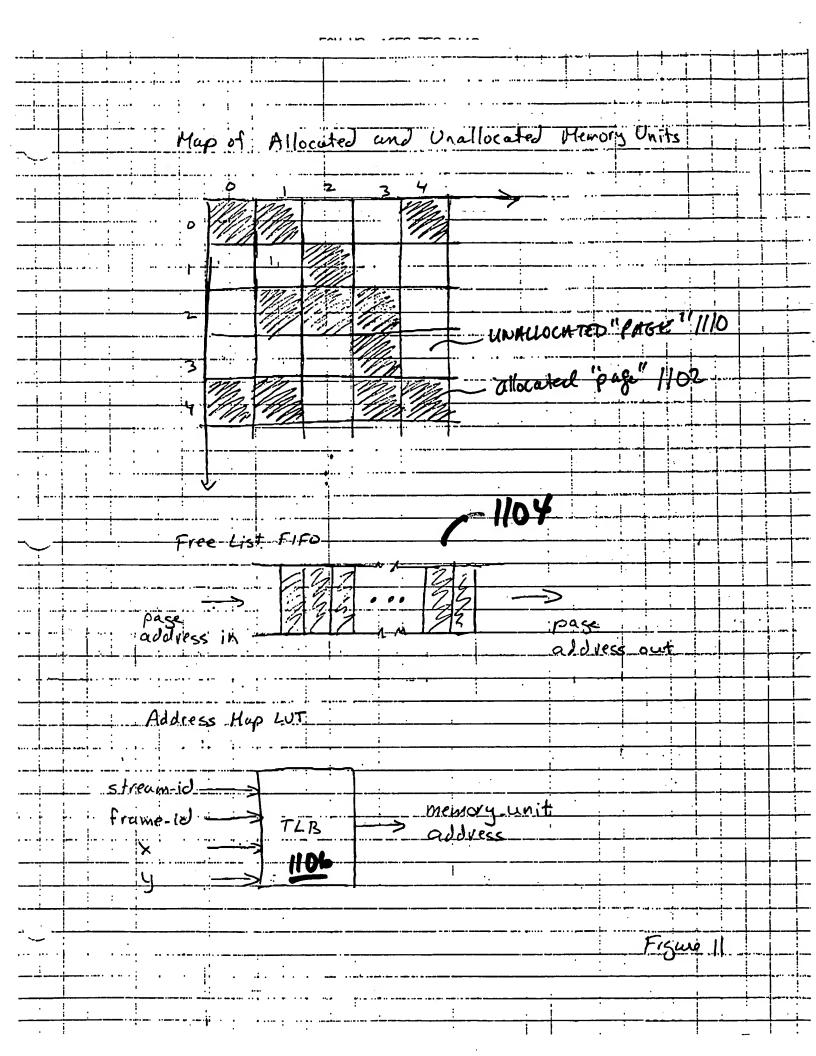
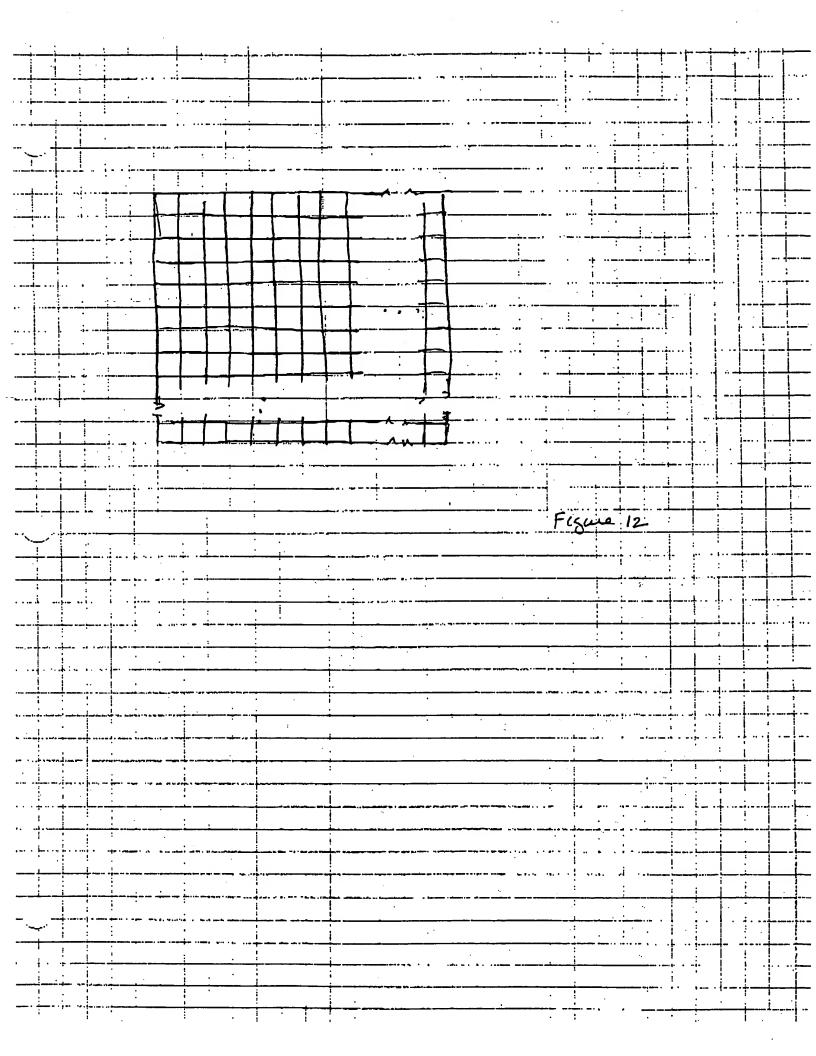


```
mem_allocate ( d, i, j, k ) begin
  i\overline{f} ( d > k) begin
                                                                TISMO 9
  - D(i,j)-= 0 ---
    return(addr(i,j))
  end
  k = k / 2
  if ( d \le D(i+k,j+k) and
      (d > D(i+k,j-k) \text{ or } D(i+k,j-k) >= D(i+k,j+k)) and
      (-d \rightarrow D(i-k,j+k) \text{ or } D(i-k,j+k) >= D(i+k,j+k)) and
      (d > D(i-k,j-k) \text{ or } D(i-k,j-k) >= D(i+k,j+k)))
        a = mem_allocate( d, i+k, j+k, k)
  else if ( d \le D(i+k,j-k) and
            (d > D(i-k,j+k) \text{ or } D(i-k,j+k) >= D(i+k,j-k)) and
            (d > D(i-k,j-k) \text{ or } D(i-k,j-k) >= D(i+k,j-k)))
        a = mem_allocate( d, i+k, j-k, k)
   else if ( d \le D(i-k, j+k) and
            (d > D(i-k,j-k) \text{ or } D(i-k,j-k) >= D(i-k,j+k)))
        a = mem_allocate( d, i-k, j+k, k)
   else
        a = mem_allocate( d, i-k, j-k, k)
   D(i,j) = max(D(i+k,j+k), D(i+k,j-k), D(i-k,j+k), D(i-k,j-k))
   r turn( a )
 end
 mem_free ( i, j, k ) begin
D(i,j) = 2 * k
                                                                  Figure 10
   while ( k < MEMSIZE/2 ) begin
      k = k * 2
      D(i,j) = max(D(i+k,j+k), D(i+k,j-k), D(i-k,j+k), D(i-k,j-k))
    end
```

end





```
addr ss_generator () begin
 m = 0
  input (frame, x, y, xsize, ysize)
  while (n < ysize) begin
    x = xaddr + m
    y = yaddr + n
    block_addr = LUT \{ frame, y[:7], x[:7] \}
    y_suboffset = y[6:4]
    x suboffset = x[6:4]
    addr = { block_addr, y_suboffset, x_suboffset }
    y_offset = y[3:0]
x_offset = x[3:0]
    output ( addr, y_offset, x_offset )
    m = m + 16
    if (m >= xsize) begin
      n = n + 16
      m = 0
    end
  end
  return
end
data_merge () begin
   input ( x_size, y_size, x_offset, y_offset)
   while ( n < y_size ) begin
```

```
while ( i < 16 ) begin
      m = 0
     while ( m < (x_offset + x_size) ) begin</pre>
         j = 0
        while (j < 16) begin
           input ( block_data )
           B[i][m] = block_data
           m = m + 1
           j = j + 1
         end
      end -
       i = i + 1
    end
    if ( y_offset > 0 ) begin
       i = y_offset
      y_offset = 0
    else
      i = 0__
    end
    while ( i < 16 and n < ysize) begin
    -while ( j < x_size ) begin
data = B[i][j + x_offset]
         output ( data ) j = j + 1
      end
      i = i + 1
      n = n + 1
    end
  end
end
```

1=15me 15

